

DESCRIPTION

 23 AWG 4 Pair F/UTP 10G Category 6A cable tested to ANSI/TIA 568-C.2 for 10Gbps @500Mhz premium grade, high performance for top level network cabling for maximum headroom and bandwidth. Available in Wood Reel for easier installation.

FEATURES AND BENEFITS

- Category 6A performs at improved specifications, particularly in the area of alien crosstalk. Category 6A make use of their higher standards by allowing full 10GBASE-T transmission speeds of up to 10Gbps, at 500MHz of signal bandwidth, over 100 meters (330 ft)
- Improved cable temperature rating (90°C Plenum) for greater protection against increased operating temperatures and for high-wattage applications
- The internal separator optimizes each pair for superior electrical perfomance and maintains flexibility. This unique spline stabilizes each pair to create a smaller, round cable profile

APPLICATIONS

- IEEE 802.3 10G Base-T, 1000Base-T, 100Base-TX, 10Base-T, PoE, PoE+
- ANSI/TIA 854: 1000Base-TX
- CDDI, Token Ring, ATM
- Digital Video
- Broadband and Baseband Analog Video

STANDARD COMPLIANCES

- ANSI/TIA 568-C.2
- ANSI/TIA 862 (Building Automation)
- ISO/IEC 11801 Ed. 2.0 (Class EI)
- ICEA 8-102-700 (Category 6 or 5E)
- REACH Compliant
- CPR Compliant (Fully Comply to 305/2011 & EN 50575:2014-09)
- RoHS Compliant Directive 2002/95/EG

Toll Free: (866) 945-5051 Local: (770) 945-5051 Fax: (770) 945-9582 www.commoditycables.com

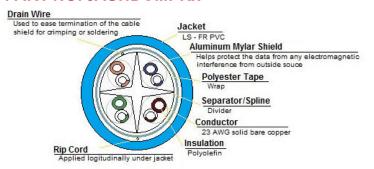






CAT6A 23AWG/4PAIR 10G CMP SHIELDED F/LITP

PART NO. 6ASHDCMPRx



PHYSICAL PROPERTIES

Conductor		Material	Bare copper		
		Nominal Outside Diameter (mm)	4x2x0.58 (±0.005)		
Insulation		Material	FEP		
		Diameter (± 0.05mm)	1.15		
Screen Material		erial	AL-FOIL + Drain Wire (0.4TC)		
Construction			Shielded / Plenum		
	Ма	aterial	LS-FR PVC		
Jacket	Αv	verageThickness (mm)	0.75		
	Mi	nimum Point Thickness (mm)	0.6		
	Οι	utside Diameter (±0.2mm)	7.8		
Rip Cord:			Yes		
Drain Wire:			Yes		
Packing	Ţ	Length	1000ft ± 4ft		
	١	Weight	49 lbs/Reel		
Voltage Rating (Max)			DC 300v		
Test Flame Method			CMP		



ELECTRICAL CHARACTERISTICS

1.0 - 25	0.0MHz characteristic impedance (ohms)	100Ω±15Ω		
250-650	0.0MHz Delay Skew (ns/100m)	≤45		
Pair-to-0	Ground Capacitance Unbalance (Pf/100m)	≤330		
Max. Co	onductor DC Resistance Unbalance (%)	≤5		
Max. Re	esistance Unbalance (%)	9.38/100m		
Max Mu	tual Capacitance	5.6nF/100m		
Max DC	Loop Resistance	19.2Ω/100m		
Min DC	Insulation Resistance	150ms2/km		
Max Pro	pagation Delay Skew	40ns/100m		
Before	Tensile Strength (Mpa)	≥10.0		
Aging	Elongation (%)	≥100		
After	Tensile Strength (Mpa)	-		
Aging	Elongation (%)	≥75		
Aging P	eriod (°C x hrs)	100°C x 24h x 7d		
Cold Be	nd (No Visible Crack)	-20±2°C		
Tempera	ature Range	-20°C ~ +75°C		
Velocity	of Propagation (%) NVP	70%		



1000' Wood Reel Weight: 49 lbs.

AVAILABLE CATEGORY 6 (PART NUMBERS)					
PVC	Plenum	Shielded	Shielded Direct		Shielded
	Fieliulii		Plenum	Burial	Direct Burial
6ACMR234Rx	6ACMP234Rx	6ASHDCMRRx	6ASHDCMPRx	6AOUTG234RB	6AOUTGSHDRB



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ELECTRICAL PERFORMANCE

ACRF - Attenuation to Crosstalk Ratio - Far End (dB/100m)

NEXT - Near End Crosstalk (dB/100m)

ACR - Attenuation to Crosstalk Ratio (dB/100m)

PSNEXT - Power Sum Near End Crosstalk (dB/100m)

ELFEXT - Equal Level Far End Crosstalk (dB/100m)

PSELFEXT - Power Sum Equal Leverl Far End Crosstalk (dB/100m)

RL - Return Loss (dB)

TCL - Transverse Conversion Loss (dB/100m)

ATT - Attenuation (dB/100m)

FREQUENCY (MHz)	ATT (dB/100m)	RL (dB)	ACR (dB)	Next (dB)	PSNEXT (dB)	TCL (dB/100m)	PHASE DELAY	ELFEXT (dB/100m)	PSELFEXT dB/100m)
1	2.1	20.0	72.2	75.3	72.3	40.0	570.0	68.0	65.0
4	3.8	23.0	61.5	66.3	63.3	40.0	552.0	56.0	53.0
8	5.3	24.5	55.4	61.8	58.8	40.0	546.7	49.9	46.9
10	5.9	25.0	53.4	60.3	57.3	40.0	545.4	48.0	45.0
16	7.5	25.0	48.8	57.2	54.2	38.0	543.0	43.9	40.9
20	8.4	25.0	46.4	55.8	52.8	37.0	542.1	42.0	39.0
25	9.4	24.3	43.7	54.3	51.3	36.0	541.2	40.0	37.0
31.25	10.5	23.6	41.4	52.9	49.9	35.1	540.4	38.1	35.1
62.5	15.0	21.5	32.4	48.4	45.4	32.0	538.6	32.1	29.1
100	19.1	20.1	25.2	45.3	42.3	30.0	537.6	28.0	25.0
200	27.6	18	12.2	40.8	37.8	27.0	536.5	22.0	19.0
250	31.1	17.3	7.2	39.3	36.3	26.0	536.3	20.0	17.0
300	34.3	16.8	2.9	38.3	35.5	25.2	535.5	-	-
400	40	15.9	-	37.8	35	24.0	535	-	-
500	45.3	15.2	-	36.5	34.3	23.0	533	-	-
600	50.1	14.5	-	35	33.5	-	532	-	-
650	52.4	13.9	-	34.6	31.2	-	530	-	-

^{*}Electrical performance with frequency over 500MHz is only for reference*

AVAILABLE JACKET COLORS				
STANDARD	BLUE	WHITE		
SPECIAL	Per Customer Request*			
INSULATION COLORS				
PAIR 1	BLUE	WHITE		
PAIR 3	GREEN	WHITE		
PAIR 4	BROWN	WHITE		
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JACKETS ABBREVIATION

Black	В	Last alphabetical charac-
White	W	ter of each part number
Gray	G	indicates the color code
Blue	0	that the Jacket is avail-
Yellow	Υ	able in. For example Part
Green	V	# 6CMR244Bx ("x" indi-
Orange	OR	cates all the colors to the
Purple	Р	left are available for this
Red	R	product.

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